No. 5,975,893, which claimed the benefit of provisional application no. 60/050,342, filed on June 20, 1997. The full disclosures of each of these applications are incorporated herein by reference.

IN THE CLAIMS:

Please amend claims 1, 4, 19-21, and 23-27, as follows. Please cancel claims 3, 10-18, 22, and 28-37. Please replace the set of claims currently on file with the following set of claims.

1. (Amended) A method for producing a dental positioning appliance which is removably attachable to at least one dental feature to effect or enhance dental positioning, said method comprising:

providing a mold of dental features wherein the mold has at least one attachment device mounted or formed on a surface of the mold;

forming the dental appliance over the mold with the attachment device; and

removing the dental appliance from the mold, wherein the appliance has a receptacle corresponding to the attachment device and tooth receiving cavities corresponding to the dental features of the mold;

providing additional structures in the mold of dental features, wherein the structures provide a guide to demarcate a portion of the appliance in a desired location; and

altering a portion of the appliance demarcated by the structure.

2. (As filed) A method as in claim 1, wherein the method further comprises:

providing additional structures on the mold of dental features, wherein the appliance has protrusions corresponding to the structures; and

removing the appliance from the mold utilizing the protrusions, whereby removal is aided.

Please cancel claim 3.

~~3.~~ (Amended) A method as in claim 1, wherein the altering step comprises cutting out the portion of the appliance demarcated by the structure, whereby a window is created to expose the underlying dental feature.

5. (As filed) A method for producing a digital model, said method comprising:

providing a digital model of at least one dental feature;

providing a digital model of at least one attachment device; and

positioning the digital model of the attachment device on the digital model of the dental feature to produce a combined computerized model.

6. (As filed) A method for producing a dental positioning appliance which is removably attachable to at least one dental feature to effect or enhance dental positioning, said method comprising:

providing a combined digital model of at least one dental feature having at least one attachment device;

producing a mold from the combined digital model, wherein the mold has the attachment device on a surface thereof;

forming a dental positioning appliance over the mold; and

removing the appliance from the mold, wherein the appliance has a receptacle corresponding to the attachment device and cavities corresponding to the dental features.

7. (As filed) A method as in claim 6, wherein the method further comprises:

providing a digital model of an additional structure;

positioning the digital model of the additional structure on the digital model of dental features, wherein the appliance has protrusions corresponding to the structures; and

removing the appliance from the mold utilizing the protrusions, whereby removal is aided.

8. (As filed) A method as in claim 6, wherein the method further comprises:

providing a digital model of an additional structure;

positioning the digital model of the additional structure on the digital model of dental features, wherein the structures provide a guide to demarcate a portion of the appliance in a desired location; and

altering a portion of the appliance demarcated by the structure.

9. (As filed) A method as in claim 8, wherein the altering step comprises cutting out the portion of the appliance demarcated by the structure, whereby a window is created to expose the underlying dental feature.

Please cancel claims 10-18.

a4 9~~19~~. (Amended) A method for moving teeth, said method comprising:

securing an attachment device on a dental feature;

removably positioning a first dental positioning appliance over the dental feature wherein the appliance comprises an elastic polymeric shell having a cavity which receives the dental feature and a receptacle which receives the attachment device; and

removably positioning at least a second dental positioning appliance over the dental feature, wherein the second dental positioning appliance comprises an elastomeric shell having a cavity which receives the dental feature and a receptacle which receives the attachment device, wherein at least one of the receptacle and the cavity has a different configuration than that of the first dental positioning appliance.

10 ~~20~~. (Amended) A method as in claim 9 ~~19~~, wherein the appliances apply repositioning force to the attachment device.

11 ~~21~~. (Amended) A method as in claim 10 ~~19~~, wherein the appliances are anchored with the attachment device and apply a repositioning force to another dental feature.

Please cancel claim 22.

a5 12 ~~23~~. (Amended) A method as in claim 9 ~~19~~, further comprising removably positioning at least a third dental positioning appliance over the dental feature, wherein the third dental positioning appliance comprises an elastomeric shell having a cavity which receives the dental feature and a receptacle which receives the attachment device, wherein at least one of the receptacle and the cavity has a different configuration than that of the first and second dental positioning appliances.